

August 22, 1956

25X1

Layout of the CKD (Ceskomoravska Kolben Danek) Jiri Dimitrov Plant in Blansko

25X1

Sketch # 2

1. Blansko Macocha RR station.
2. Production hall "Pavlinka". During WW-II armored cars were produced here; presently used for production of auto frames. The hall is L-shaped, 60 x 20 and 20 x 20 meters large and 8 m high. Adjacent to the hall is a wooden warehouse.
3. Plant RR spur, about 3 km long.
4. Plant management and administration building; four-storied, built in 1945.
5. Garages; masonry, ground-floor, L-shaped, 50 x 10 and 10 x 10 m large.
6. Civil defense storage; two-storied building which contains civil defense equipment, such as, gas masks, stretchers, etc.
7. Laundry house; two-storied, 10 x 6 m.
8. Plant private power station equipped with water turbine; was not in action.
9. Apprentice workshop; masonry, ground-floor, 60 x 15 m large, 6 m high. East of the workshop is a masonry, ground-floor warehouse with material for schooling of apprentices.
10. Girls' quarters; two-storied, 20 x 20 m, accommodation for girl-apprentices.
11. Social security office; masonry, ground-floor.
12. Single men's quarters; masonry, two-storied, 20 x 8 m.
13. Wooden warehouse containing lumber, iron-plating and profile iron.
14. Old machine shop; a complex of old buildings connected one to another, about 280 m long, 20 m wide. Contains maintenance sections and the production of boilers, armatures, turbine gates and tools.
15. Machine shop administrative and storage building; a complex of inter-connected ground-floor, two-storied, three-storied and four-storied buildings about 240 m long and 10 - 15 m wide. Contains: old machine shop offices, ferro-alloys store, pipes store, telephone switchboard, electric material store and maintenance workshops.

16. New machine shop; a reinforced concrete hall, 135 x 45 meters large, 16 m high, built in 1950-51. Turbines and vertical lathes are being produced here. South of the new machine shop is a grinding shop about 60 x 8 m large and 8 m high; a half of this building contains the grinding shop and the other half contains compressor hall, boiler room and storage of electro-motors for vertical lathes. A 60-ton overhead crane enables loading and unloading of material on the RR cars moving between the two buildings.
17. Three old masonry houses. The largest house is a former flour mill now used as a warehouse for the workers' messhall and kitchen; northeast of this building is a pigsty, and northwest is a warehouse for POL and paints.
18. Dispensary under construction; ground-floor, 30 x 15 m.
19. Storage of small castings; wooden house, ground-floor, 20 x 10 m.
20. Open storage of heavy castings which are being aged here (by exposure to air and sun). An overhead crane, 40-ton carrying capacity, is used for loading and unloading of the castings.
21. Saw-mill and storage of lumber.
22. Old foundry; the oldest buildings of the plant, consists of a row of inter-connected buildings about 300 m long and 15 m wide. The buildings contain: offices, chemical laboratories, electrolytic shop, fire house, lathe shop and milling shop, bath tub casting shop, ferroalloys parts casting shop, bath tubs machining shop and bath tub enamelling shop.
23. Canteen and the factory guard room; masonry, two-storied. East of it is a ground-floor warehouse for the canteen.
24. Locomotive shed for two steam locomotives and one diesel locomotive.
25. Foundry accounting office; two-storied, 20 x 10 m.
26. Steel forgery; about 140 x 30 m. New forgery is under construction adjacent to the old forgery. The main product ~~is~~ are turbine blades forged from tempered steel and various small steel parts.

Northeast of the steel forgery is a transformer for high-frequency furnaces.
27. New foundry; reinforced concrete, 160 x 100 m large, 30 m high, built in 1951. All the big pieces for turbines, vertical lathes, gear boxes and crank shaft boxes are cast in this foundry. The two buildings northeast of the new foundry contain compressor hall and an electric transformer.
28. Model shop; ground-floor, L-shaped, 80 x 30 m and 30 x 20 m large. Adjacent are warehouses serving the model shop.
29. Plant water works.
30. Apprentices' quarters; three-storied, 40 x 30 m.

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31. Employee quarters; four ground-floor, masonry buildings, each about 20 x 10 m. Three buildings are for single men and one building for single women.
32. Eight porters' lodges.
33. Underground shelter, built during the war, lately enlarged and renovated. Two more underground shelters were planned to be built.
34. Concrete bunkers for air observers. Bunkers are for one person; they are built on vantage points with a good view at the plant. Each bunker is equipped with a telephone. Five bunkers were built so far.
35. High tension electric current mats for a 100,000 volt current. West of the RR line is a transformer for the plant.
36. Turbine testing station.

Sketch # 3 Production hall "Pavlinka" . 60 employee work in three shifts and produce auto frames.

1. Nine small presses for bending of profile steel plates.
2. Cloakrooms, wash rooms.
3. Workshop benches with various small machine tools.
4. Office.
5. Two hydraulic presses.
6. Four electric saws for steel sawing.
7. Bending machine for metal plate; three cylinders 4 m long and 50 cm in diameter.
8. Porter's room and time clock.

The rest of the hall is filled with anvils and auxiliary machine tools.

Sketch # 4 Apprentice workshop is used also for turning out bronze bearings for turbines and vertical lathes.

1. Porter's room and time clock.
2. Lecture room.
3. Production hall with 30 lathes of the most modern design.
4. Production hall with 18 milling machines of both horizontal and vertical types.
5. Boiler room for central heating.
6. Coal storage.
7. Welding and forging shop equipped with electric welding for 5000 amperes, acetylene welding and an electric forgery.

8. Teachers' office.
9. Production control center.
10. Tool storage and maintenance shop for tools.
11. Twelve workshop benches.
12. Bathrooms.

Sketch # 5 Old machine shop

1. a. 18 electric saws for steel.
 - b. Acetylene metal cutters.
 - c. Two hydraulic presses.
 - d. Welding shop.
 - e. Forgery.
 - f. Riveting shop.
 - g. Assembly of turbine gates.
 - h. Office for the boiler production.
2. Armature production hall equipped with vertical lathes, planers, vertical and horizontal boring machines.
3. Turning shop.
 - a. Tools storage, tool maintenance shop, offices.
 - b. About 60 lathes of various types, seven machines for manufacture of cogwheels and six milling machines.
 - c. Electric switchboard and boiler for central heating.
 - d. Raw material storage.
 - e. Tempering shop with electric heating furnace.
4. Machine tool maintenance shop equipped with six horizontal lathes, four milling machines, one vertical lathe, one planing machine, a few boring machines and a storage of spare parts for machine tools.
5. Garage for plant electric transporters; the batteries for the transporters are also being charged here.
6. Carpenters' maintenance shop and electricians' maintenance shop.
7. New tools shop equipped with 40 lathes of the latest designs, 20 milling machines, eight planing machines, two vertical lathes, one hydraulic press, one 30-ampere electric welder and electric forgery.

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Sketch # 6 Machine shop administrative and storage building

1. Storage of acetylene bombs.
2. Storage of ferroalloys and various other raw materials.
3. Boiler room.
4. Telephone and factory broadcast swithboard.
5. Offices, messhall, small dispensary.
6. Electric installation material.
7. Storage of maintenance material.

Sketch # 7 New machine shop

1. Offices and messhall.
2. Assembly of electric equipment for vertical lathes, welding shop (18 electric welders), three vertical lathes, 10 horizontal lathes, one planing machine, and one boring machine.
3. Twelve milling machines, assembly shop for vertical lathes gear boxes, about 22 lathes.
4. Two planing machines, three boring machines, two vertical lathes, and about 30 drawing tables for marking on castings.
5. Four vertical lathes, one boring machine.
6. Assembly shop for turbines with enclosure for offices.
7. Assembly shop for vertical lathes; in the annex assembled lathes are being painted.
8. The new machine shop is also equipped with 9 ten-ton cranes, three 15-ton cranes, eight 30-ton cranes, four 40-ton cranes and two 60-ton cranes.

Sketch # 8 Old foundry

1. Chemical laboratory, electrolytic shop, offices.
2. Fire house.
3. Grinding shop with electric and pneumatic grinding machinery.
4. Apprentices' pressing shop.
5. Casting shop for bath tubs.
6. Bath tubs storage, casting shop for bronze bearings.
7. Enameling shop with three gas furnaces, three 5-ton cranes and two 10-ton cranes.

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Sketch # 9 Steel forgery

1. Offices, bathrooms.
2. Storage of models.
3. Pneumatic presses for smaller steel parts.
4. Pneumatic manufacture of turbine blades; the blades are from tempered, anti-rust steel.
5. Production hall for boiler grates.
6. Two high frequency electric induction furnaces for steel casting.
7. Storage of finished products.

Three 10-ton cranes are also among the equipment of the steel forgery.

Sketch 10 New foundry

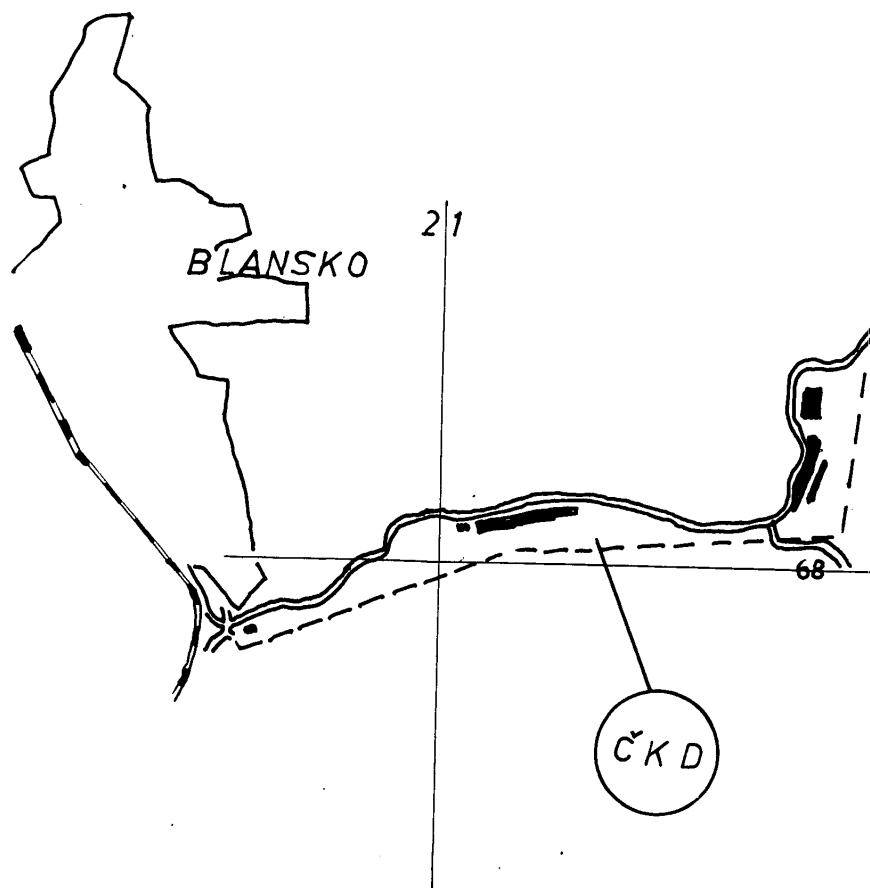
1. Offices, bathrooms.
2. Casting shop for tractor gear boxes and crank shaft boxes.
3. Main casting hall for vertical lathes and turbines; two furnaces for grey cast iron are in the hall.
4. Offices and stores.
5. Castings grinding shop; there is a water ejector for a 150-atmosphere pressure and a lead-pellets ejector for smoothing the surfaces of the castings. The crane equipment consists of: twelve 5-ton cranes, three 5-ton bridge cranes, three 15-ton cranes, two 25-ton cranes, three 40-ton cranes and two 60-ton cranes.

Sketch # 11 Turbine testing station

1. Various mechanical and electric equipment for testing.
2. Three stands for tested turbines.
3. Automatic control for the turbines under test.
4. Drafting boards for on the spot corrections of working drawings.
5. Offices.

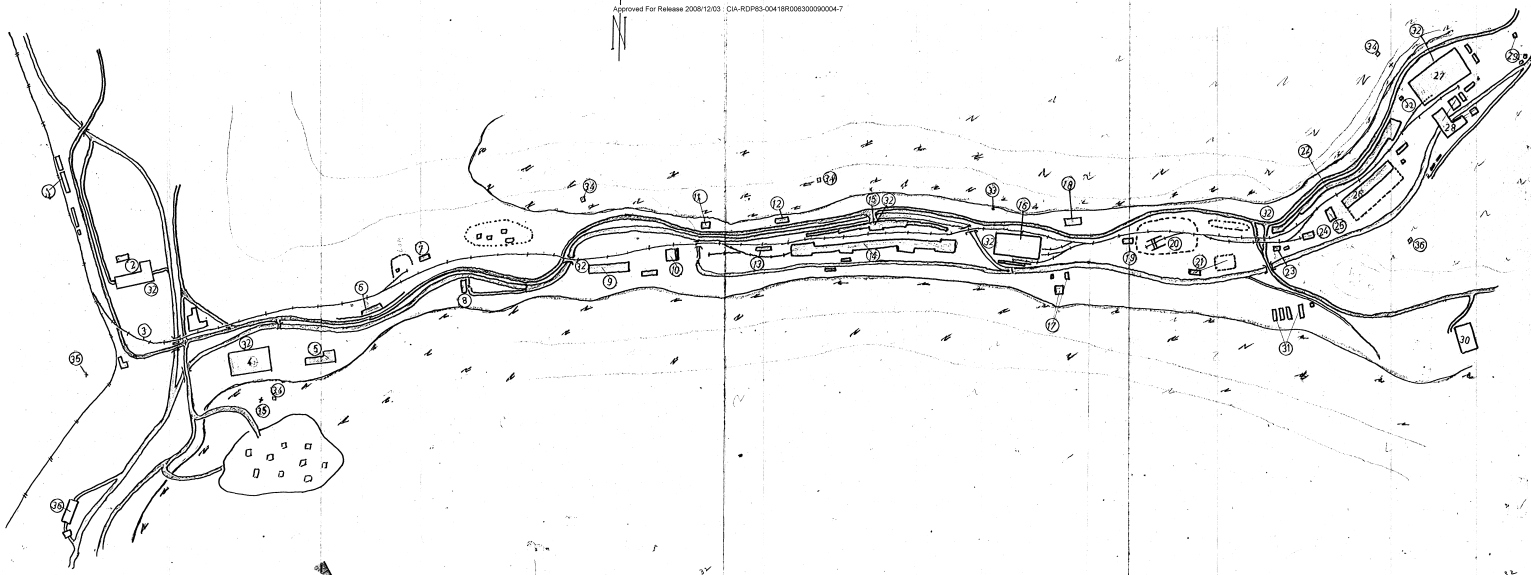
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Sketch # 1



SCALE 1:25 000 SHEET 6665 + 6666

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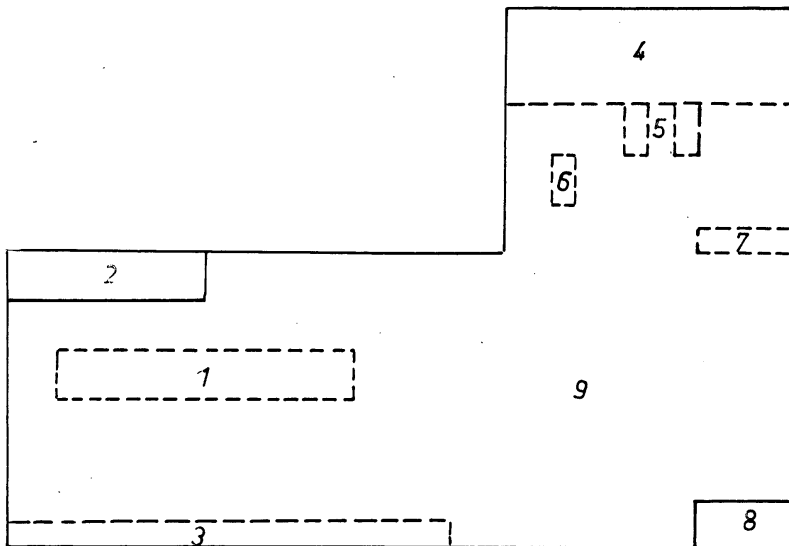


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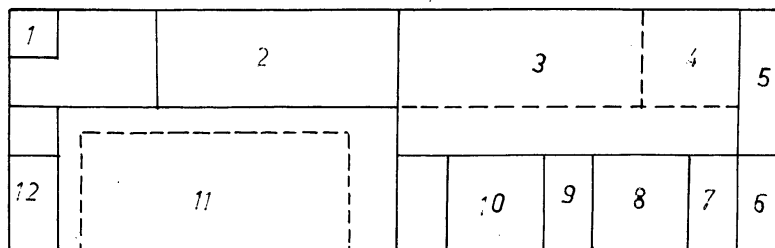
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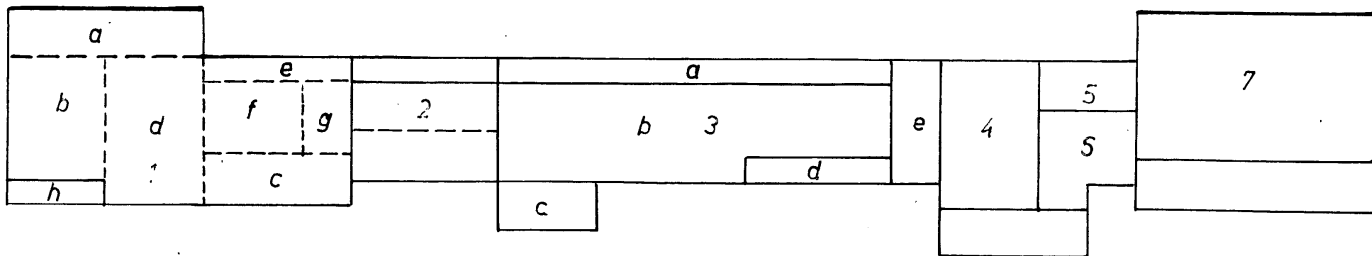
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Sketch # 4



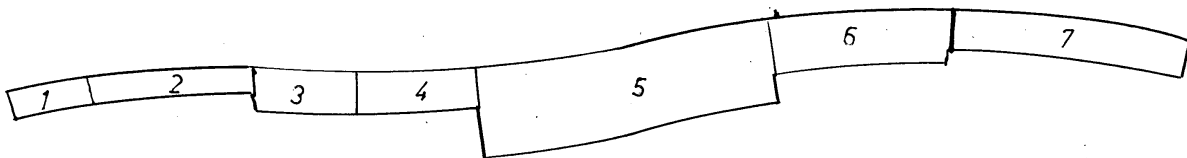
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Sketch # 5



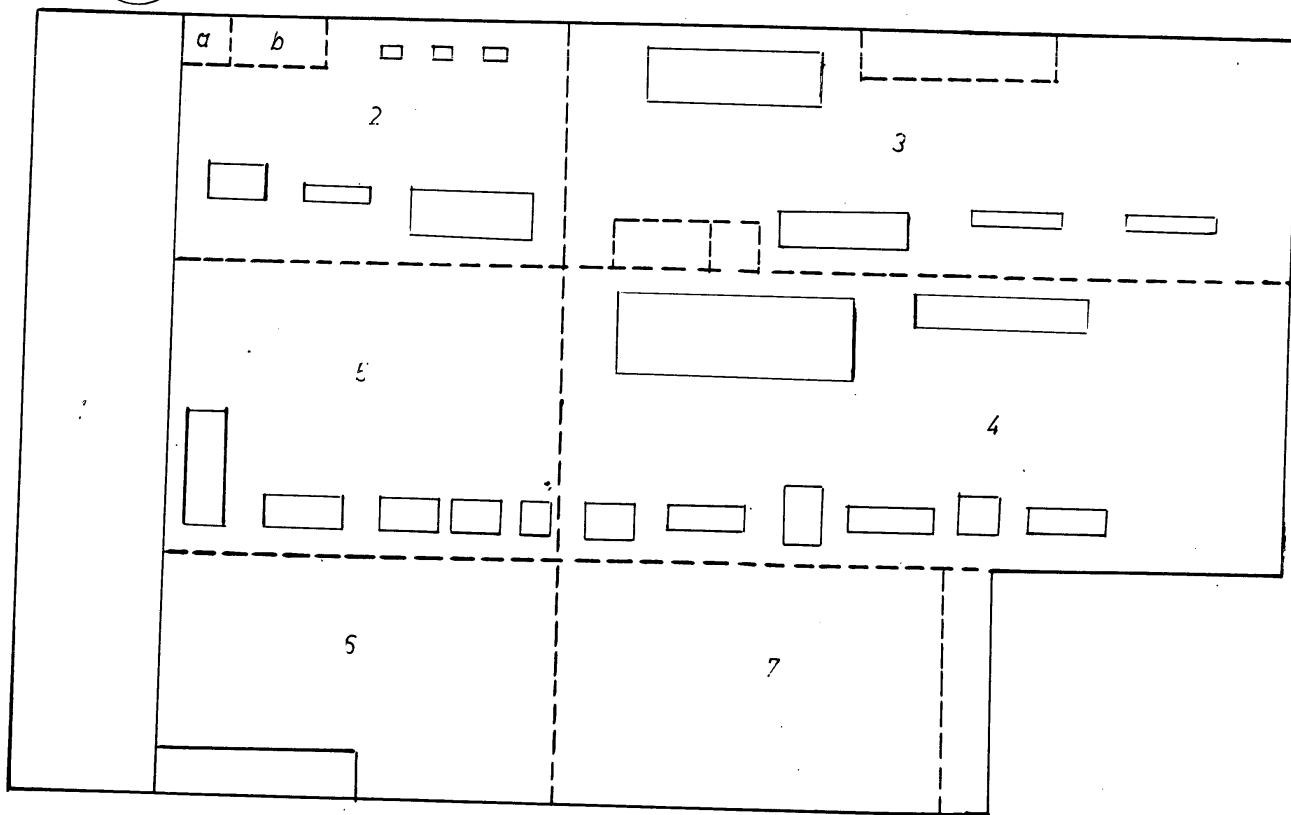
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Sketch # 6



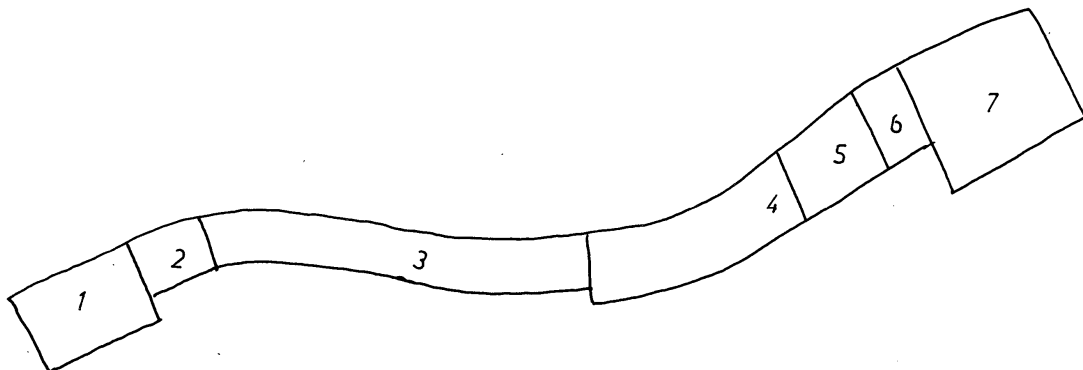
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Sketch # 7



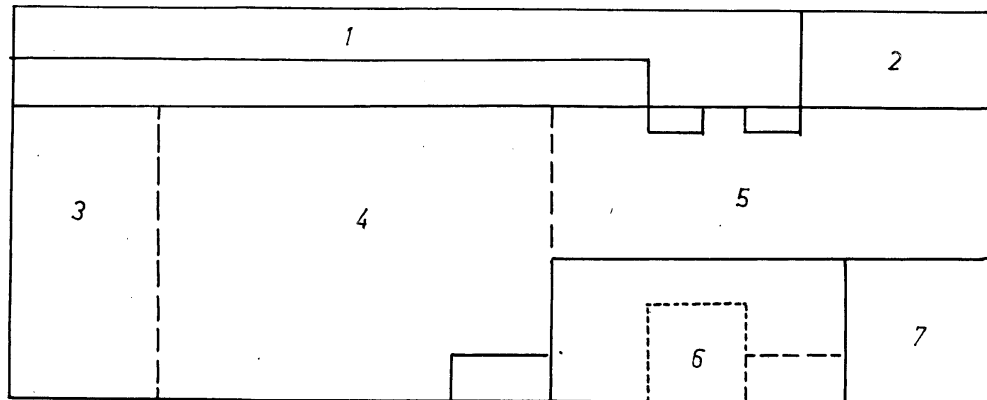
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Sketch # 8



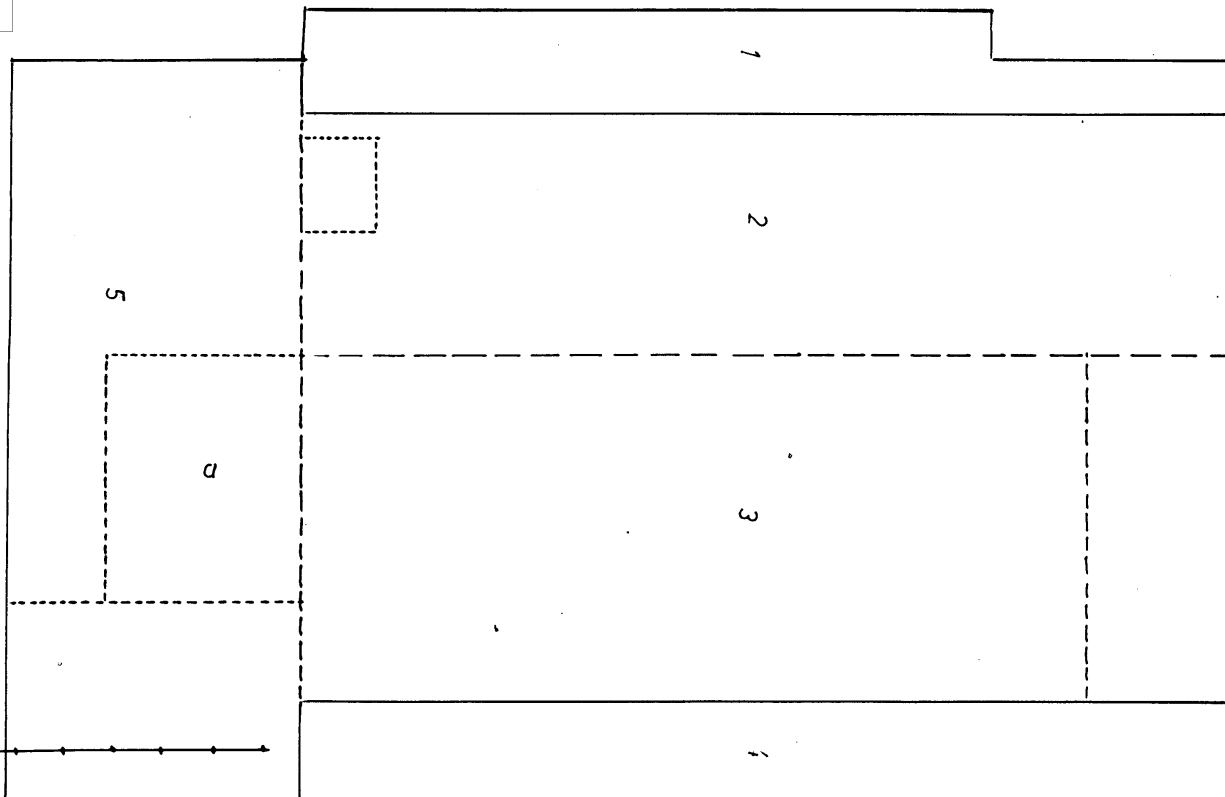
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Sketch # 9



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Sketch # 10



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Sketch # 11

